

# Requirements

## Patient

1. **Make an appointment** – as a patient, I need to be able to schedule an appointment in the hospital app following the next steps:
  - By pressing a button in the patient dashboard, I should navigate to the make an appointment form where I can fill out this form using dropdown lists as follows:
  - Select a department (radiology, cardiology, dentist, orl, etc.)
  - Select a procedure from the said department(mrn, basic medical record, teeth removal, etc). A procedure is available for a specific department (radiology can do mrn, dentist can do teeth removal, etc.)
  - Select a doctor from said department (the dropdown will show a list of doctor name & rating)
  - Using a date selector, choose a day in a 30-day time span starting from the day after the day I am doing the appointment (from tomorrow). Invalid days will be a different color and will show an error message when selected.
  - After selecting a day, choose a time-slot from the list of available time-slots shown (this adapts based on the procedure chosen ex. If duration is 1h only time-slots that can accommodate a one hour procedure are shown). Time-slots represent 30 mins. Duration of an appointment is given by the duration of the selected procedure.
  - After every detail is set, I can confirm the medical record so that it is registered in the database by pressing a button. If some fields are not selected or invalid an error message will be shown and the transaction will not proceed.
  - After DB registration, I need to receive a confirmation of the appointment
2. **See my upcoming appointments** – as a patient, I need to be able to check my upcoming appointments in the hospital app doing the following:

- By pressing a button in the patient dashboard I should navigate to the upcoming appointments window
- This window contains a calendar that can be navigated (using WinUI calendar components similarly to the MS Teams calendar feature)
- The appointments can be seen as events in this calendar as cards at their correct date & time (similar to a MS Teams meeting in the calendar)
- The schedule needs to keep up with the database updates. Any change in the db data should be reflected in the calendar.
- I should be able to click an appointment in the calendar to open a modal window with details about the appointment (time, doctorName, departmentName, procedureName) which allows me to cancel it min 24h before due date by pressing a cancel button on this window. If there are less than 24 hours until the meeting, the button will be greyed out and not clickable

3. **See medical record results** – as a patient, I need to see a list of my past medical records by clicking a button in my dashboard that will lead me to the history window. The list should refresh when data is updated in the DB. The window will display a list of cards (rectangles) with minimal details like “Medical record: Time & Date, DepartmentName”. I need to be able to click on a medical record card to see all the details of said medical record in a modal window (department, doctor, date, procedures performed, results = provided documents by the doctor as a list of names like res1.pdf, res2.jpg). This screen should allow me to:

- Download the documents associated with the medical record by pressing a button (results)
- Press a button to be able to provide feedback (another group’s task)

## **Doctor**

1. **See schedule** - as a doctor, I need to see my appointments and work-shifts in the calendar by clicking a button in my dashboard and navigating to the

DoctorSchedule window. The schedule needs to keep up with the database updates. Any change in the db data should be reflected in the calendar. I need to be able to:

- Select a day from the calendar. The window should have a calendar/day picker component representing the current month.
  - After selecting a day, I will be able to see the structure of a day in the same window (list of the 24 hours divided into 30-minute slots). For this we will use WinUI components similar to how a day is displayed in the MS Teams calendar. These DaySchedule component will reflect my work-shift (different-colored background for example: if I work from 8 to 20 that day, the background of the DaySchedule will be green from 8am to 20pm, the rest will be grey) and also show the appointments planned for said shift in their correct time-slot. If there is for example an appointment from 10am to 12am, that interval will contain a card similar to events in MS Teams with Appointment – Procedure/PatientName as text
  - Clicking an appointment card opens a modal window which shows the details (patient name, procedure, department evtl.) and contains a button which allows the doctor to create a medical record with the information in this appointment (the medical record/medical review object will use the same patientId, doctorId, procedureId and date as the appointment). It also contains a “view profile” button that leads the doctor to the patient medical record history window.
2. **Make a medical record** – as a doctor, I need to be able to select an appointment from my schedule and click on a “Create Medical record” button. This will navigate to the medical record creation form window and fill in data using patient data from the appointment (the medical record object will use the same patientId/Name, doctorId/name, procedureId and date) and will allow the doctor to also add some documents as results of the medical record. The appointment data will be filled in the corresponding textfields of the form and can be further edited if needed. The documents should be loaded by pressing a load document button which will open a windows explorer navigator/document picker window. Multiple

documents can be added. Then by pressing a button the doctor can save the medical record in the db.